

Title (en)
Inscribed planetary gear device

Title (de)
Getriebe mit hypocykloidatem Antrieb

Title (fr)
Transmission à trous hypocycloidal

Publication
EP 0482529 B1 19960110 (EN)

Application
EP 91117837 A 19911018

Priority
JP 28801990 A 19901025

Abstract (en)
[origin: EP0482529A1] An inscribed planetary gear device usable as a speed reducer or an overdrive has a primary shaft which serves, for example, as an input shaft, an externally-toothed gear carried at an eccentricity by the primary shaft; an internally-toothed gear inscribed by the externally-toothed gear; and a secondary shaft which serves, for example, as an output shaft and connected to the externally-toothed gear, through an Oldham's mechanism which transmits to the secondary shaft only the rotation of the externally-toothed gear taking place about the axis of the externally-toothed gear. Critical portions of the major parts such as the primary shaft, secondary shaft, externally-toothed gear, internally-toothed gear and the Oldham's mechanism, which require high degrees of mechanical strength and precision, are formed by metal powder injection molding.

IPC 1-7
F16H 1/32; **F16H 55/06**

IPC 8 full level
F16D 3/04 (2006.01); **F16H 1/32** (2006.01); **F16H 55/06** (2006.01)

CPC (source: EP KR)
F16D 3/04 (2013.01 - EP); **F16H 1/32** (2013.01 - EP); **F16H 3/44** (2013.01 - KR); **F16H 55/06** (2013.01 - EP)

Cited by
CZ306314B6; FR2926866A1; CN108952873A; US5486144A; CN108798819A; CN110513444A; CN110529215A; EP0710782A4; CN108979775A; US5498215A; CN110513169A; US9927005B2; WO2009095585A3; WO9605451A1; WO2011029665A1

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